

KARA, J.; SORM, F.; WINKLER, A.

Determination of uridine kinase activity in some human tumours and normal tissues, using 4,5-¹⁴C-6-azauridine as substrate. Neoplasma 10 no.1:3-10 '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Science, Prague, Oncological Research Institute, Bratislava, CSSR.

(PHOSPHOTRANSFERASES)	(NEOPLASMS)	(BREAST NEOPLASMS)
(STOMACH NEOPLASMS)	(TESTICULAR NEOPLASMS)	(NUCLEOSIDES)
(ANTINEOPLASTIC AGENTS)	(LYMPH NODES)	(STOMACH) (UTERUS)
(OMENTUM)	(TESTIS)	(MUSCLES)
	(SIGMOID NEOPLASMS)	(TISSUE METABOLISM)

TRACZYŃSKI, T.; SPODKAL, J.; SOKAL, P.

Nucleic acid components and their analogues. Pt. 50. Coll. Cz.
chem. 19 no. 7:1736-1738 J1 1974.

T. Institute of Technology of Drugs, Division of Pharmaceutics,
School of Medicine, Lodz, and Institute of Organic Chemistry and
Biochemistry, Czechoslovak Academy of Sciences, Prague.

PISKAL, A.; SORM, F.

Nucleic acid components and their analogues. Pt. 51. Coll. Cz
Chem 29 no.9:2067-2076 S '64.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague. 2. Chairman, Advisory Board,
"Collection of Czechoslovak Chemical Communications" (for Sorm).

NOVOCHY, I.; HEROUT, V.; ADAM, F.

On terpenes. Pts. 167, 168. Coll. of Chem 29 no. 2, 182-2193 S '64.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague. 2. Member, Advisory Board, "Collection of Czechoslovak Chemical Communications" (for Herout). 3. Chairman, Advisory Board, "Collection of Czechoslovak Chemical Communications" (for Sorm).

KRATOVA, H.; ADAM, B.; VOJCI, F.

inhibitors of Ehrlich ascites tumor. pt. 3. Coll. Czechoslov. Chem. 29 no.9:
1725-1727 1964.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague. 2. Chairman, Advisory Board, "Collection
of Czechoslovak Chemical Communications" (for Sorm).

SKODA, J.; CIHAK, A.; SORM, F.

Inhibition of the pyrimidine pathway by 5-azauracil, N-formylbiuret and its combination with 6-azauridine in Ehrlich ascites bearing mice. Coll Cz Chem 29 no.10:2389-2399 0 '64.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

PIJAL, J.; NORD, F.

Synthesis of a 2-deoxy-D-ribofuranosyl-5-azacytosine. Coll
Cz Chem 29 no.10:2576-2578 O '64.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague.

SORM, Frantisek, akademik

Message of the President of the Czechoslovak Academy of Sciences
to the Pugwash Conference in Mitoznik. Vestnik CSAV 72 no.5:581
'63

1. President of the Czechoslovak Academy of Sciences, Prague.

SKODA, J., doc. inz.; CIHAK, A., promovany chemik; SORM, F., akademik

Distribution and retention of a new coccidiostatic, 6-azauracil,
in the tissue of chickens. Veter medicina 9 no. 2:81-86 Mr '64.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague.

MOTL, O.;HEROUT, V.; SORM, F.

On terpenes. Pt. 164. Coll Cz chem 29 no.7:1675-1688 J1 '64.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague.

SUCHY, M.; HEROUT, V.; SORM, F.

On terpenes. Pt. 165. Coll Cz chem 29 no.8:1829-1834 Ag '64.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague. 2. Chairman, Advisory Board, "Collection of Czechoslovak Chemical Communications" (for Sorm).

DLOUHA, V.; KELL, B.; SORM, F.

Structure of the peptides isolated from the tryptic hydrolysate of the chain of edestin. Coll Cz chem 29 no.8:1835-1850 Ag '64.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague. 2. Chairman, Advisory Board, "Collection of Czechoslovak Chemical Communications" (for Sorm).

NOVOTNY, L.; TABACIKOVA-MLOTZKA, Ch.; HEROUT, V.; SORM, F.

On terpenes. Pt. 166. Coll Cz chem 29 no.8:1922-1931 Ag '64.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague.

PRYSTAS, M.; SORM, F.

Nucleic acids components and their analogues. Pt. 44. Coll Cz
Chem 29 no.12:2956-2970 D '64.

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak
Academy of Sciences, Prague. 2. Advisory Board Chairman, "Collection
of Czechoslovak Chemical Communications" (for Sorm).

1. *Amide, I.*
Nucleic acids components and their analogues. Pt. 53. Chem
Soc Rev 20 (1991) 2809-2813 N 162.

2. Institute of Organic Chemistry and Biochemistry of the
Czechoslovak Academy of Sciences, Prague.
3. Advisory Board Chairman, "Collection of Czechoslovak
Chemical Communications" (for Scrm).

CERNA, J.; RYCHLIK, I.; SORM, F.

Acceptor and transfer activity of transfer ribonucleic acid
with decreased of uracil or cytosine. Chem Cz Chem 29
no.11:2832-2840 N '64.

1. Institute of Organic Chemistry and Biochemistry of the
Czechoslovak Academy of Sciences, Prague.
2. Advisory Board Chairman, "Collection of Czechoslovak
Chemical Communications" (for Sorm).

SMRT, J.; SORM, F.

Oligonucleotidic compounds. Pt.10. Coll Cz Chem 29 no.12:2971-2979
D '64.

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague. 2. Advisory Board Chairman, "Collection of Czechoslovak Chemical Communications" (for Sorm).

BENNY, V.; PEROV, V.; SUD, V.

(in terpenes. Pt. 17). J. Chem. Soc. 1961, 3196-3197.

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague.

TOMASEK, V.; MIKES, O.; HOLEYSOVSKY, V.; SORM, F.

On proteins. Pt. 91. Coll Cz Chem 29 no.12:3122-3156 D '64

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague.

SORM, Frantisek, akademik

Present ideological problems of the further development of the Czechoslovak socialist society and the tasks of the Czechoslovak Academy of Sciences. Vestnik CSAV 73 no.3:382-397 '64.

1. Chairman of the Czechoslovak Academy of Sciences, Prague.

TRAVNICKÝ, V.; BURIČ, L.; RUTAN, J.; ŠTÍP, F.

The nucleotide composition of the RNA of the Avian Myeloblastosis virus (BAI strain A) and of the nucleic acids of leukemic myeloblasts. Neoplasma (Bratisl.) 11 no.6:71-534 1964

1. The Laboratory of Biochemical Investigation of Cancer, Department of Nucleic Acids and Protein Synthesis, Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague, Czechoslovakia.

The effect of the administration of 100 mg of
amphetamine for 24 hours on normal mice is shown in Table
1. The mice were given 100 mg of amphetamine (Benlate) orally
every 6 hours.

The results of the experiment are shown in Table 1. The mice
showed no significant changes in body weight.

VRKOC, J.; JONAS, J.; HEROUT, V.; SORM, F. .

On terpenes. Pt.15". Coll Cz Chem 29 no.2:539-550 F '64.

1. Institut. of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague.

CERNY, V.; DOLEJS, L.; SORM, F.

On steroids. Pt. 87. Coll Cz chem 29 no.7:1591-1597 J1 '64.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague.

CZECHOSLOVAKIA

JUROVSKÝ, M.; RASKA, K. Jr; SOUKOVÁ, Z; SOUK, F.

Institute of Organic Chemistry and Biochemistry of the
Czechoslovak Academy of Sciences, Prague (for all)

Prague Collection of Czechoslovak Chemical Communications,
No 10, 1965, pp 3370-3376

"Anabolic Transformation of a Novel Antimetabolite,
5-Azacytidine and Evidence for Its Incorporation into
Ribonucleic Acid."

...CZECHOSLOVAKIA

J. L. A.; SORM, F.

Institute of Organic Chemistry and Biochemistry of the
Czechoslovak Academy of Sciences, Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications,
No 18, 1965, pp 3543-3547

Inhibitory Effects of 5-Aminocaproic Acid on Escherichia coli."

...CZECHOSLOVAKIA

J. L. A.; SORM, F.; SORM, V.; SORM, F.

Institute of Organic Chemistry and Biochemistry of the
Czechoslovak Academy of Sciences, Prague

Prague, Collection of Czechoslovak Chemical Communications,
No 10, 1965, pp 3473-3477

"On the Synthesis of New Derivatives of Antibiotic
Mycin and Streptolide."

CZECHOSLOVAKIA

PLIVL, J.; SORMA, P.

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (for both).

Prague, Collection of Czechoslovak Chemical Communi-
cations, No 11, November 1965, pp 3744-3751.

"Nucleic acid components and their analogues. Part 72:
Synthesis of maleic acid hydrazide riboside and 2'-deoxy-
xyriboside."

CZECHOSLOVAKIA

HOLEYSOVSKY, V.; TOMASEK, V.; MIKES, O.; DANILOVA, A.S.; SORM, F.

Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague - (for all).

Prague, Collection of Czechoslovak Chemical Communications,
No 11, November 1965, pp 3936-3952.

"On proteins. Part 98. The disulfide bonds of bovine dip-
trypsin."

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FUCIA, V.; SOROKOVA, Z.; SCRM, F.

The effect of 5-azacytidine on the root meristem of *Ficaria verna*. *Biologia plantarum* 7 no.1:58-64 '65.

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague 6-Dejvice, Flemingova
vzn. 2. Submitted July 2, 1964.

PRYSTAS, M.; SORM, F.

Nucleic acids components and their analogues. Pt.55. Coll
Cz Chem 30 no.1:81-89 Ja '65.

1. Institute of Organic Chemistry and Biochemistry of the
Czechoslovak Academy of Sciences, Prague. 2. Advisory
Board Chairman, "Collection of Czechoslovak Chemical
Communications" (for Sorm). Submitted June 16, 1964.

PITHOVA, F., PISEKALA, A.; PITHA, J.; SORM, F.

Nucleic acids components and their analogues. Pt.56. Coll
Cz Chem 30 no.1:90-98 Ja '65.

1. Institute of Organic Chemistry and Biochemistry of the
Czechoslovak Academy of Sciences, Prague. 2. Advisory
Board Chairman, "Collection of Czechoslovak Chemical
Communications" (for Sorm). Submitted June 30, 1964.

JEGOROV, G. (Jagorov, G.S.); KHEL, B.; SORM, F.

On proteins. Pt. 92. Coll Cz Chem 30 no.1:105-117 Ja '65.

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague. 2. Permanent address: Institute of Natural Substances of the Academy of Sciences of the U.S.S.R., Moscow (for Jagorov). 3. Advisory Board Chairman, "Collection of Czechoslovak Chemical Communications" (for Sorm). Submitted February 5, 1964.

TURKOVA, J.; MIKES, O.; SORM, F.

Chemical composition of the antibiotic albomycin. Pt.8.
Coll Cz Chem 50 no.1:118-127 Ja '6..

1. Institute of Organic Chemistry and Biochemistry of the
Czechoslovak Academy of Sciences, Prague. 2. Advisory
Board Chairman, "Collection of Czechoslovak Chemical
Communications" (for Sorm). Submitted April 29, 1964.

CIHAK, A., SORM, F.

Interaction of 5-azauracil with uridine phosphorylase in the cell-free extract of mouse liver. Coll Cz Chem 30 no.1:324-334 Ja '65.

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague. 2. Advisory Board Chairman, "Collection of Czechoslovak Chemical Communications" (for Sorm).

ZACRAL, M.; SORM, F.

The preparation and certain biological properties of L-DAB⁸ - vasopressin and D-DAB⁸ - vasopressin. Coll Cz Chem 30 no.2:611-612 F '65.

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague. Submitted November 20, 1964. 2. Advisory Board Chairman, "Collection of Czechoslovak Chemical Communications" (for Sorm).

PITROVA, P.; PISEKALA, A.; PICH, J.; SORM, F.

Nucleic acid components and their analogues. Pt. 3. Coll
Cz Chem 30 no.5:1626-1634. Vy 1965.

1. Institute of Organic Chemistry and Biochemistry of the
Czechoslovak Academy of Sciences, Prague. Submitted September
2, 1964.

KLONHA, V., SEUFERHOVA, J.; ILMEN, B., SERM, J.

On proteins. Pt. 95. Coll Cz Chem 39 16.1:1705-1712 My '65.

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague and Leci'a, Prague. Submitted June 26, 1964. 2. Advisory Board Chairman, "Collection of Czechoslovak Chemical Communications" (for SerM).

U.S.S.R.; R. B., V. S., M. D., S.; G. S., S. S.

Effect of 2-methoxy-5-ethyl-4-thio-oxazoles on poliovirus multiplication. *Acta. virol.* (Prague) [no.] 10: 60-62, 1965

1. Institute of Polomyelitis and Viral Encephalitis, U.S.S.R., Academy of Sciences, Moscow, and Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

RUSSEL, A. J. (RUSSEL, A. J., SORM, F.)

Chem. Abstr. 61, 89. Coll. Cz. Chem. 10 no. 2: 1072-480 F '65.

1. Institute of Organic Chemistry and Biochemistry of the
Czechoslovak Academy of Sciences, Prague. Submitted June
21, 1964. 2. Advisory Board Chairman (for Sorm).

FRYŠTAS, M.; SORM, F.

Nucleic acids components and their analogues. Pt.57. Coll Cz
Chem 30 no.2:537-546 F '65.

1. Institute of Organic Chemistry and Biochemistry of the
Czechoslovak Academy of Sciences, Prague. Submitted June
27, 1964.

JAROLIM, V.; HEJNO, K.; SORM, F.

Composition of brown coal. Pt.9. Coll Cz Chem 30 no.3:873-879 Mr '65.

1. Institut für organische Chemie und Biochemie, Tschechoslowakische Akademie der Wissenschaften, Prague. Submitted June 15, 1964.
2. Advisory Board Chairman, "Collection of Czechoslovak Chemical Communications" (for Sorm).

JARCLIMEK, P.; WOLLRAB, V.; STREIBL, M.; SORM, F.

Composition of brown coal. Pt.10. Coll Cz Chem 30 no.3;880-886
Mr '65.

1. Institut für organische Chemie und Biochemie, Tschechoslowakische
Akademie der Wissenschaften, Prague. Submitted June 29, 1964.

2. Advisory Board Chairman, "Collection of Czechoslovak Chemical
Communications" (for Sorm).

PINHOVA, J. J. and A. J. J. 1980, 1.

Compounds inhibiting the degradation of urea in the cells of Ehrlich ascites tumour. *J. Biol. Chem.* 255:1717-1724.

J. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague. Submitted September 1979.

WOLFEK, V. J. 1964, No. 1, p. 1.

Wolfek, V. J. 1964, No. 1, p. 1. 1964, No. 1, p. 1. 1964, No. 1, p. 1.

1. Institut für Organische Chemie und Biochemie, Tschechoslowakische Akademie der Wissenschaften, Prag. Submitted September 2, 1964.
2. Laboratory of Chemistry, "Collection of Czechoslovak Chemical Literature" (1964).

SMAHEL, O., (Praha-Krc, Budejovicka 800); CERNOCH, A.; SORM, F.; KONIG, J.;
VALENTA, O.; SVEHLA, C.; SVOEC, J.; BLAHA, V.; UHER, V.;
GERBEROVA, J.

An attempt to treat chorionepithelioma with 6-azauridin. Cas. lek.
Cesk. 104 no.4:1085-1087 8 0 '65.

1. Vyzkumny ustav experimentalni terapie a interni katedra Ustavu
pro doskolovani lekaru v Praze (reditel prof. dr. O. Smahel, DrSc.),
Gynekol.-porodnicka klinika Ustavu pro doskolovani lekaru v Praze
(prednosta doc. dr. A. Cernoch) a Ustav organicke chemie a biochemie
Ceskoslovenske akademie ved (reditel akademik F. Sorm).

CZECHOSLOVAKIA

ZAORAL, M; SOHM, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague - (for both)

Prague, Collection of Czechoslovak Chemical Communications,
No 1, January 1966, pp 90-97

"Amino acids and peptides. Part 59: Synthesis and some biological
properties of L-dab⁸-vasopressin."

SORM, F.

CZECHOSLOVAKIA

SPRUKAL, J; PANKAS, J; SORM, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 1, January 1966, pp 266-277

"Nucleic acids components and their analogues. Part 74: Use of
2-deoxy-2-ribose-5-benzyl derivatives in the synthesis of nucleosides."

CZECHOSLOVAKIA

ZACHAL, M; SOHM, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague - (for both)

Prague, Collection of Czechoslovak Chemical Communications
No 1, January 1966, pp 308 - 314

"Amino acids and peptides. Part 60: Synthesis of d-dab⁸-vaso-
pressin."

SORM E

CZECHOSLOVAKIA

CEJKA, J; KUCHEK, I; SORM, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 1, January 1966, 136-140

"Acceptor and transfer activity of transfer ribonucleic acid
methylated with dimethylsulfoxide."

SORM, F.

CZECHOSLOVAKIA

BOVCHNI, L; BAREK, Z; SOCH, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences - (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 1, January 1964, pp 371-374

"On terpenes. Part 176: Isolation and structure of dimethoxy-
dihydrofurosesquiphilane."

SORM, F.

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ZADRAL, K; KOLC, J; SOCH, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences - (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 1, January 1964, pp 382-383

"Synthesis of d-ery⁸- and d-lys⁸- vasopressins."

CZECHOSLOVAKIA

PRYBTAŠ, M; SORM, P

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (for both)

Prague, Collection of Czechoslovak Chemical Communi-
cations, No 3, March 1966, pp 1035-1052

"Nucleic acid components and their analogues. Part 76:
The Hilbert-Johnson reaction of 2,4-dialkoxypyrimidines
with 2,3,5-tri-*o*-benzoyl-*d*-ribofuranosyl chloride."

CZECHOSLOVAKIA

CINAK, A; VESELY, J; JORH, F

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communi-
cations, No 3, March 1966, pp 1124-1130

"Some features of the biological effect of 1,2,4-
triazine methylthio derivatives."

PARKAS, J; JORH, F

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (for both)

Prague, Collection of Czechoslovak Chemical Communi-
cations, No 3, March 1966, pp 1413-1414

"Nucleic acid components and their analogues. Part 78:
Synthesis of 5-(2'-chloro-2"-fluorodiethylaminomethyl)
uracil."

CZECHOSLOVAKIA

KALOUSEK, F; RASKA, Jr. K; JUROVCIK, M; SORM, F

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (For all)

Prague, Collection of Czechoslovak Chemical Communi-
cations, No 3, March 1966, pp 1421-1424

"Effect of 5-azacytidine on the acceptor activity of sRNA."

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LABLER, L; SAMEK, Z; SMOLIKOVA, J; SORM, F

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 5, May 1966, pp 2034-2047

"On steroids. Part 97: Isolation and structure of some
secondary formed weak bases from Holarthra antidysenterica."

CZECHOSLOVAKIA

CERNY, V; SORM, F

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (for both)

Prague, Collection of Czechoslovak Chemical Communications,
No 5, May 1966, pp 2231-2237

"On steroids. Part 98: Preparation of some steroidal
dihydropyrane derivatives."

CZECHOSLOVAKIA

SORM, F
JOSKA, J; PAJKOJ, J; SORM, F

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences - (for all)

Prague, Collection of Czechoslovak Chemical Communi-
cations, No 7, July 1966, pp 2745-2758

"On steroids. Part 100: The Δ^4 -steroid hydroxy
ketones and their ord-curves."

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CZECHOSLOVAKIA

RASKA, Jr. K; JUROVCIK, M; FUCIK, V; TYKVA, R; SORMOVA, Z; SORM, F.

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 7, July 1966, pp 2809-2815

"Metabolic effects of 5-azacytidine in isolated nuclei
of calf-thymus cells."

CZECHOSLOVAKIA

SORM, F
JUCHY, M; HAROUT, V; SORM, F

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 7, July 1966, pp 2899-2903

"On terpenes. Part 179: Geometry of double bonds in
the ten-membered ring of costunolide."

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CZECHOSLOVAKIA

KALOUSEK, F; CERNA, J; RYCHLIK, I; SORM, F

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communi-
cations, No 7, July 1966, pp 2985-2994

"Specificity of lysyl-sRNA synthetase from Escherichia
coli."

CZECHOSLOVAKIA

SORM, F.

CIRAK, A; TYKVA, R; SORM, F

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communi-
cations, No 7, July 1966, pp 9017-9019

*[Incorporation of 5-azacytidine-4-[14 C] and of cytidine
-3 H] into ribonucleic acids of mouse Ehrlich ascites
tumor cells."

CZECHOSLOVAKIA

ZISLER, K; RUDINGER, J; JORM, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 12, December 1968, pp 4565-4580

"Amino acids and peptides. Part 65: Analogues of oxytocin with isoleucine replaced by L-diethylalanine L-cyclopentylglycine, and L- and D-cyclohexylglycine."

CZECHOSLOVAKIA

FAJKOŠ, J; JOŠKA, J; SORM, F.
SORM, F.

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications.
No 12, December 1966, pp 4610-4621

"On steroids. Part 102: Fission of 4 β , 5 β -epoxides of
the B-norsteroid series."

CZECHOSLOVAKIA

SORM, F

STRANJAY, K; STRNIBL, M; SORM, F

Institute of Organic Chemistry and Biochemistry,
Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communi-
cations, No 12, December 1966, pp 469-4702

"On natural waxes. Part 6: On a new type of released
paraffins of beeswax (Apis mellifera)."

CZECHOSLOVAKIA

ZENLICKA, J; SORM, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague - (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 2, February 1967, pp 576-590

"Nucleic acid components and their analogues. Part 89: Synthesis of 2',3'-O-isopropylidene-2,5'-cyclic-6-azauridine and 2-(D-ribofuranosyl)-3-amino-4,5-dihydro-1,2,4-triazine-3-one (6-azaisocytidine)."

SORM, J., inz.; MARSALEK, P., inz.

Measuring the yield point $\sigma_{0,2}$ of austenitic steel. Syrojirenstvi
12 no.4:312-313 Ap '62.

1. Vyzkumny ustav hutnictvi zeleza, Praha (for Sorm). 2. Spojene
ocelarny, narodni podnik, Kladno (for Marsalek).

SORMAN, Ladislav, inz.

Determination of thiamine and riboflavine in some food concentrates. Chem zvesti 17 no.10/11:798-802 '63.

1. Katedra chemickéj technologic uhlehydratov, Slovenska vysoka skola technicka, Bratislava, Kollarovo namesti 2.

Sesquiterpenes. III. Synthesis of 4,6-dimethylsalicic Acids. *K. Saito, T. Saito, and Y. Saito, J. Org. Chem.*, 1971, 36, 181-183 (1971). — Et 2-methoxycyclopentanecarboxylate heated 2 hrs. in the presence of Na in PhMe with MeCH₂CH₂CO₂Et gave, on distn., 85% Et 1-(1-carbethoxyethyl)-2-methoxycyclopentanecarboxylate (I), b.p. 140°. I heated with concd. HCl 12 hrs. yielded 52% α-methyl-2-methoxycyclopentanecarboxylic acid (II), b.p. 151°; semicarbazone, m. 198°. Et ester (III), from II 15%; semicarbazone, m. 198°. In alos. EtOH, and NCH₃CO₂Et, III in the presence of K, alos. EtOH, and NCH₃CO₂Et, III yielded 85% Et 2-(1-carbethoxyethyl)-α-cyano-3-methoxycyclopentanecarboxylate (IV), b.p. 150-60°, reduced by hydrogenation in EtOH in the presence of PtO₂ to 82% Et 2-(1-carbethylthioethyl)-α-cyano-3-methoxycyclopentanecarboxylate, b.p. 151°. Et ester (V) was boiled 10 hrs. with 30 cc. concd. HCl. When 3 g. IV was applied on the reaction surface an oil which was there evaporated by stream distn., giving a total of 0.5 g. 2-methyl-3-hydroxy[3,3]octan-3-one (VI); semicarbazone m. 204°. The aq. layer yielded 0.5 g. α-methyl-1,2-cyclopentanedicarboxylic acid (Vb), m. 190°. From Et 2-carbethoxy-

methyl)- α -cyanocyclopentanecarboxylate, Na, C₆H₆, and MeI was obtained 81%; Et 2-(carbethoxymethyl)- α -cyano- α -methylcyclopentanecarboxylate (VI), b_p 157–9°, 40 g of which heated with 500 ml. conc. HCl 20 hrs. gave on cooling, 18 g. pure α -acid (Va), m. 181°; from the mother liquors was obtained 2 g. *trans*-acid (Vb), m. 150°. Va and SOCl₂ gave the acid chloride, converted by Cl₂/N₂ through the diamide into *cis*- β -methyl-1,2-cyclopentanediolpropionic acid (VII), m. 183°. From VII, reduced Fe powder, and Ba(OH)₂ was distd. 83°; 2-methylbicyclo[5.3.0]decan-4-one (VIII), b_p 128°; semicarbazone m. 57–8°. Hydrolysis of the reaction product of VIII and MeMgI yielded 94% *cis*-2,4-dimethylbicyclo[5.3.0]decan-4-ol, b_p 135–6°, dehydrated over KHSO₄ to 88°; *cis*-2,4-dimethylbicyclo[5.3.0]dec-3- or 4-dec-ene, b_p 108.5°; dehydrogenation of the latter over 10% Pt charcoal at 340–60° yielded crude 4,6-dimethylazulene (IX), which could not be cryd.; with triisobutylene, dark needles (X), m. 143°, were obtained. IX, liberated from X chromatographically in pentane soln., was light purple in color. M. Q. Webb

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Polarographic reduction of heterocyclic compounds II
F. Šorm and Z. Šormová. *Chem. Listy* 42, 82-7 (1948).
In a study of systems similar to one of the components of
catecholase, the following compds. were subjected to
polarographic reduction: *Pyridine-MeBr*, *trigonelline-MeBr*,
nicotinamide-MeBr, *isonicotinamide-MeBr*, *1-tetraacetyl-
glucoside-3-carboxypyridinium bromide*, and *cozyme*. The
varying behavior of the compds. is related to their struc-
tures. Where 2 waves are found, the 1st is asssd. with 1-
electron reduction to a semiquinonoid compd., the 2nd
to the reduction to a dihydropyridine deriv. M. Hudlický

SORMOVA, L.

RASKOVA, H; RASKA, K; SORMOVA, Z; SOURKA, J; MATEJOVSKA, V; ZELENKOVE, B.

Certain properties of Shiga Kruse toxin. Cas. lek. cesk. 89 no.49:
1373-1376 8 Dec 50. (CLML 20:4)

1. Of the Institute of Pharmacology of Charles University, of the
Institute of Organic Technology in Prague, and of the National
Institute of Health.

CA

11A

Proteins and amino acids. VII. Clupein. F. Sorm and Z. Sormová (Central Chem. Research Inst., Prague). *Collection Czechoslov. Chem. Commun.*, 16, 207-13(1951). (in English); cf. C.A. 46, 153c.—Amino acid compns. of the clupein methyl ester hydrochloride fractions prepd. after Felix and Durr (C.A. 24, 376) were found to vary in amino acid content. Fraction B was found to differ from fractions A and C in that it contained small amts. of aspartic and glutamic acids in addn. to the amino acids common to all fractions. The end groups of clupein were investigated by prep. dinitrophenylclupein (I) as the methyl ester hydrochloride after Sanger (C.A. 40, 5390). The complete hydrolysis of I and analysis of the products on a silica-gel column indicated proline and probably serine as terminal amino acids. Partial hydrolysis of I yielded some neutral dinitrophenyl peptides identified as dinitrophenylprolylalanine, dinitrophenylprolylalanylserine, and dinitrophenylserylalanylserine. Proline-alanine-serine is indicated as the terminal amino-acid sequence in clupein counter to currently quoted formulas for clupein. J. M. Perri

CA

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Proteins and amino acids. XV. Isolation and properties of protein toxins of *Shigella dysenteriae*. Frantisek Svec, Zoya Semyova, Pavla Sebestová, and Vera Matějková (Central Chem. Inst., Prague, Czech.) *Chem. Listy* 60, 468-70 (1952); cf. *C.A.B.* 60, 11264d. Ext. of the R strain of *Shigella dysenteriae* (Shiga-Krusoe) was fractionally pptd with $(NH_4)_2SO_4$, and the concentrate subjected to electrophoresis in an agar gel. Out of 5 protein components, the two prevailing were found extremely toxic, having LD_{50} 0.113 and 0.0175 γ for 16 g. mice, resp. The more toxic component contains δ -alanine. Both toxins seem to be pure proteins, contg. no nucleic acids. M. Hudlický

Bornova, Z. S.

Proteins and amino acids. XV. Isolation and properties
of protein toxins of Shigella dysenteriae. F. Born, Z.
Bornova, F. Sebestova, and V. Matlova. *Colloids*
Communs. 18, 422-7 (1953).—See C.A. 46,
11318d. H. L. H.

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6190* Mechanism of Antibiotic Action. O mekhanizme
deistviia antibiotikov, II. Specific Action of d-Chloram-
phenicol on the Development of Some Seedling Plants. Spetsi-
ficheskoe deistvie d-khloramfenikola na razvitiie rostkov
rastenii. (Russian.) F. Sorm, M. Zelinková, and Z. Sormová.
Collection of Czechoslovak Chemical Communications, vol. 1, no. 6, Dec. 1954, p. 1324-1329.

Seeds with different reserves of protein, starch, and oil gave
different responses to the inhibitory effect. Graphs. 9 ref.

SORMOVA, ZORA

Mechanism of antibiotic action. II. The specific effects of *p*-chloramphenicol on the development of seedlings. František Šorm, Marie Zelinková, and Zora Sormová (Česk. akad. věd, Prague). *Chem. Listy* 48, 910-91 (1954); cf. C.A. 48, 4041k.—Differences in intensity and direction of the inhibitive effect of *p*-chloramphenicol depend on the nature of the seedlings. Most intensive inhibition of growth and biosynthesis of chlorophyll was found in seedlings with protein reserves. Seedlings of carbohydrate nature are affected less strongly. Oily seedlings show almost no inhibition of growth, but a strong inhibition of chlorophyll synthesis. IV. Accumulation of free alanine in seedlings under the influence of *p*-chloramphenicol. Marie Zelinková and František Šorm. *Ibid.* 1216-9; cf. C.A. 48, 13801d.—*p*-Chloramphenicol (I) causes accumulation of alanine in seedlings of various types. The accumulation depends, within certain limits, directly on the concn. of the antibiotic in the cultivation medium. At the highest concn. of I (80 γ /ml.), the amt. of alanine in seedlings (8 days old) of wheat increases 12 times, in those of rape seed 8 times, of buckwheat 4 times, and of pea 3.5 times. The common presence of alanine and I in the cultivation medium increases the effect of the antibiotic, whereas alanine alone stimulates growth of pea seedlings, especially the root system.

M. Hudlický

SORMOVA, Z.

CZECH

✓Variations in the nucleic acid content in seedlings of *Pisum sativum* in early stages of development under the influence of chloramphenicol. Zora Sormová and František Sorm (Česk. akad. věd, Prague, Czechoslovakia, 1964, 48, 1842-8 (1964)).
—The syntheses of ribonucleic (I) and deoxyribonucleic (II) acids in the first 15 days of development of pea seedlings depends strongly on light and nourishment of the plants. The changes in content of I are relatively small, the content of II increases considerably. Chloramphenicol does not inhibit the synthesis of the nucleic acids to any considerable extent in the pea seedlings, but decreases the rate of development. M. Hudlíček.

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✓ Changes in the ribonucleic and deoxyribonucleic acid con-
tent in the organs of the pea during germination. Z. Sor-
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Interaction of 6-azauridine-5-diphosphate with *Escherichia coli*
polynucleotide phosphorase. In English. Coll.Cz.Chem. 24 no.11:
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(*Escherichia coli*) (Azauridine)

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Some pyrimidine derivatives as new types of plant stimulants. Coll
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SEBESTA, K.; BAUEROVA, J.; SORM, F.; SORMOVA, Z.

Transformations of uracil analogues in cucumber seedlings. Coll Cz
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Academy of Science, Prague.
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The effect of uracil analogues on the metabolism of pyrimidines in
cucumber seedlings. Coll Cz Chem 25 no.11:2906-2912 N '60.

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(DESOXYRIBONUCLEIC ACID chem)

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SKODA, J.; KARA, J.; SORMOVA, Z.

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1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

(Polynucleotide phosphorylases)

SORMOVA, Z.

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Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague

Affiliation:

Source: Prague, Collection of Czechoslovak Chemical Communications,
Vol 26, No 10, October 1981, pp 2643-2650

Data:

"Separation of Nucleic Acid Components on Sephadex."

Authors:

ZADRAZIL, S
SORMOVA, Z
SORM, F

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Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation: Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague

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